

Amendments to the Claims

Claims 15-19 are canceled without prejudice or disclaimer herein. Claims 1 – 14 are now pending.

1. (Original) A method for displaying electrogram data collected by a pacemaker where one heart chamber is paced through a rate sensing/pacing channel and another site in the same or contralateral chamber is paced through a synchronized sensing/pacing channel with the pacing mode being based upon senses and paces in the rate channel, comprising:

displaying markers representing sensing and pacing events spaced apart in accordance with their time sequence, wherein each marker indicates whether the event is a sense or a pace and in which channel the event occurred;

displaying an interval value with each rate channel marker indicating the time interval between the event represented by the marker and the preceding rate channel event; and,

displaying an interval value with each synchronized channel marker indicating the time interval between the event represented by the marker and a nearest rate channel event.

2. (Original) The method of claim 1 wherein the rate and synchronized channels are right and left ventricular channels.

3. (Original) The method of claim 1 wherein the rate and synchronized channels are right and left atrial channels.

4. (Original) The method of claim 1 wherein the pacemaker is operated with a plurality of synchronized channels and further comprising displaying markers for each such channel.

5. (Original) The method of claim 1 wherein the displayed interval value with each synchronized channel marker indicates the time interval between the event represented by the marker and the nearest preceding rate channel event.

AMENDMENT AND RESPONSE

Serial Number: 09/748,724

Filing Date: December 26, 2000

Title: Method and System for Display of Cardiac Event Intervals in a Resynchronization Pacemaker

Page 3

Dkt: 279.341US1

6. (Original) The method of claim 1 wherein the displayed interval value with each synchronized channel marker indicates the time interval between the event represented by the marker and the nearest rate channel event which may follow or precede the synchronized channel event as indicated by a negative or positive interval value, respectively.

7. (Original) The method of claim 1 wherein the displayed interval value with each synchronized channel marker indicates the absolute value of the time interval between the event represented by the marker and the nearest rate channel event which may precede or follow the synchronized channel event, and the synchronized channel interval is displayed in alignment with the marker representing the later of either the synchronized channel or rate channel event.

8. (Previously Amended) A method for displaying electrogram data collected by a pacemaker where one heart chamber is paced through a rate sensing/pacing channel and another site in the same or contralateral chamber is paced through a synchronized sensing/pacing channel with the pacing mode being based upon senses and paces in the rate channel, comprising:

displaying markers representing sensing and pacing events spaced in accordance with their time sequence, wherein each marker indicates whether the event is a sense or a pace and in which channel the event occurred;

displaying an interval value with each rate channel marker indicating the time interval between the event represented by the marker and the preceding rate channel event; and,

displaying an interval value with each synchronized channel marker indicating the time interval between the event represented by the marker and either the preceding rate channel sense or synchronized channel pace, whichever is nearest.

9. (Original) The method of claim 8 wherein the rate and synchronized channels are right and left ventricular channels.

10. (Original) The method of claim 8 wherein the rate and synchronized channels are right and left atrial channels.

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Page 4

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11. (Original) The method of claim 8 wherein the pacemaker is operated with a plurality of synchronized channels and further comprising displaying markers for each such channel.

12. (Original) The method of claim 8 wherein the displayed interval value with each synchronized channel marker indicates the time interval between the event represented by the marker and the nearest preceding rate channel event.

81  
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13. (Original) The method of claim 8 wherein the displayed interval value with each synchronized channel sense marker indicates the time interval between the event represented by the marker and the nearest rate channel sense event or synchronized channel pace event which may follow or precede the synchronized channel sense event as indicated by a negative or positive interval value, respectively.

14. (Original) The method of claim 8 wherein the displayed interval value with each synchronized channel sense marker indicates the time interval between the event represented by the marker and the nearest rate channel sense event or synchronized channel pace event which may precede or follow the synchronized channel sense event, and the synchronized channel sense interval is displayed with the marker representing the later of either the synchronized channel or rate channel event.

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

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